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Project Overview:

Project Name & Location:	Safari Tent Camp at Tswalu Kalahari Private Game Reserve – Northern Cape, South Africa
Project Date:	January 2023
Project Type:	Recreational New Construction – Helical anchors were used to support guy cables to anchor expanded roof tents.
Helical Pile Installation Contractor:	African Helical Pile & Anchor Company (AHPAC)
Structural Engineer:	de Villiers Sheard Pty (Ltd) Consulting Engineers
General Contractor:	Kobus Duvenhage Builders Pty (Ltd)
Helical Pile Specifications:	96 Helical anchors model type TS238254. Maximum working load in tension: 76kN
Soils & Embedment Depth:	Very loose sand up to depth of 1 meter below ground (SPT = 4), then changes to medium dense to dense sands at deeper depths (SPT value = 10). Installation depth = 6m.
Project Timeline:	8 days Total
Helical Pile Manufacturer:	Helical Anchors Inc. - MN

Key Benefits:

The ability to anchor the guy cables using a helical anchor over the alternative option of using reinforced concrete bases in an environmental sensitive area. The major benefit is to be able to remove the helical anchors completely should the need arise to remove or relocated the tent camp in the future.



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The helical anchors were all installed at an inclination angle of 60 degrees relative to the natural ground horizon and inline with the tent guy cables. The guy cables were tensioned to stretch the expanded roof tents which are supported by vertical struts along the perimeter of the expanded roof.

The project was undertaken in 3 separate trips to site to accommodate the principal contractor's program.

The design loads varied between 25kN to 76kN.

